NiceProt View of Swiss-Prot: O95948

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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the entry

Entry name	**ONC2_HUMAN**
Primary accession number	**O95948**
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 41, February 2003

Name and origin of the protein

Protein name	**One cut domain family member 2**
Synonyms	**ONECUT-2 transcription factor** **OC-2**
Gene name	**ONECUT2**
From	Homo sapiens (Human) [TaxID: 9606]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

References

[1] SEQUENCE FROM NUCLEIC ACID.
MEDLINE=99115605; PubMed=9915796; [NCBI, ExPASy, EBI, Israel, Japan]
Jacquemin P., Lannoy V., Rousseau G.G., Lemaigre F.P.:
"OC-2, a novel mammalian member of the ONECUT class of homeodomain transcription factors whose function in liver partially overlaps with that of hepatocyte nuclear factor-6.":
J. Biol. Chem. 274:2665-2671(1999).

Comments

- ***FUNCTION***: TRANSCRIPTIONAL ACTIVATOR. ACTIVATES THE TRANSCRIPTION OF A NUMBER OF LIVER GENES SUCH AS HNF3B.
- ***SUBCELLULAR LOCATION***: Nuclear.
- ***SIMILARITY***: Contains 1 CUT domain.
- ***SIMILARITY***: BELONGS TO THE CUT HOMEOBOX FAMILY.

Cross-references

EMBL Y18198; CAB38253.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence]

TRANSFAC	[illegible]; -.
Genew	HGNC:8139; ONECUT2.
CleanEx	HGNC:8139; ONECUT2.
MIM	604894 [NCBI - EBI].
GeneCards	ONECUT2.
GeneLynx	ONECUT2; Homo sapiens.
GO	GO:0003702; Molecular function: RNA polymerase II transcription factor activity *(traceable author statement)*. GO:0007397; Biological process: histogenesis and organogenesis *(traceable author statement)*.
SOURCE	ONECUT2; Homo sapiens.
Ensembl	O95948; Homo sapiens. [Entry / Contig view]
InterPro	IPR007108; Cut_homeo. IPR003350; Hmoeo_CUT. IPR001356; Homeobox. Graphical view of domain structure.
Pfam	PF02376; CUT; 1. PF00046; homeobox; 1.
ProDom	PD000010; Homeobox; 1. [Domain structure / List of seq. sharing at least 1 domain]
SMART	SM00389; HOX; 1.
PROSITE	PS00027; HOMEOBOX_1; FALSE_NEG. PS50071; HOMEOBOX_2; 1.
HOVERGEN	[Family / Alignment / Tree]
BLOCKS	O95948.
ProtoNet	O95948.
ProtoMap	O95948.
PRESAGE	O95948.
DIP	O95948.
ModBase	O95948.
SWISS-2DPAGE	Get region on 2D PAGE.

[illegible]

Transcription regulation; Homeobox; DNA-binding; Nuclear protein; Activator.

[illegible]

Feature table viewer

Feature aligner

Key	From	To	Length	Description
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Length: **485 AA** Molecular weight: **52482 Da** CRC64: **AF21E052EFBE5DA1** [This is a checksum on the sequence]

O95948 in FASTA format

View entry in original Swiss-Prot format
View entry in raw text format (no links)
Report form for errors/updates in this Swiss-Prot entry

BLAST submission on ExPASy SIB or at NCBI (USA)

Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)

ScanProsite, MotifScan

Search the SWISS-MODEL Repository

NiceProt View of TrEMBL: Q8K557

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the entry

Entry name	**Q8K557**
Primary accession number	**Q8K557**
Secondary accession numbers	None
Entered in TrEMBL in	Release 22, October 2002
Sequence was last modified in	Release 22, October 2002
Annotations were last modified in	Release 24, June 2003

Name and origin of the protein

Protein name	**Onecut 3**
Synonyms	None
Gene name	**ONECUT3**
From	Mus musculus (Mouse) [TaxID: 10090]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

References

[1] SEQUENCE FROM NUCLEIC ACID.
STRAIN=129/SvEvTacfBr;
MEDLINE=21942113; PubMed=11944891; [NCBI, ExPASy, EBI, Israel, Japan]
Vanhorenbeeck V., Jacquemin P., Lemaigre F.P., Rousseau G.G.;
"OC-3, a Novel Mammalian Member of the ONECUT Class of Transcription Factors.";
Biochem. Biophys. Res. Commun. 292:848-854(2002).

Comments

None

Cross-references

EMBL	AY080897; AAL86921.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence]
MGD	MGI:1891409; Onecut3.
GeneLynx	ONECUT3; Mus musculus.
GO	GO:0005667; Cellular component: transcription factor complex *(inferred from direct assay)*.
	GO:0003700; Molecular function: transcription factor activity *(inferred from direct assay)*.
	GO:0006357; Biological process: regulation of transcription from Pol II promoter

(inferred from direct assay).

SOURCE	0-4 CL-13: Mus musculus.
Ensembl	Q8K557; Mus musculus. [Entry / Contig view]
InterPro	IPR007108; Cut homeo. IPR003350; Hmoeo CUT. IPR001356; Homeobox. Graphical view of domain structure.
Pfam	PF02376; CUT; 1. PF00046; homeobox; 1.
ProDom	PD000010; Homeobox; 1. [Domain structure / List of seq. sharing at least 1 domain]
SMART	SM00389; HOX; 1.
PROSITE	PS50071; HOMEOBOX_2; 1.
HOVERGEN	[Family / Alignment / Tree]
ProtoMap	Q8K557.
PRESAGE	Q8K557.
ModBase	Q8K557.
SWISS-2DPAGE	Get region on 2D PAGE.

Keywords

None

Features

None

Sequence information

Length: **490 AA** Molecular weight: **49656 Da** CRC64: **DBB3828589D6B03E** [This is a checksum on the sequence]

Q8K557 in EASEA format

View entry in original TrEMBL format
View entry in raw text format (no links)
Request for annotation of this TrEMBL entry

BLAST submission on ExPASy SIB or at NCBI (USA)

Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)

ScanProsite, MotifScan

Search the SWISS-MODEL Repository

L Number	Hits	Search Text	DB	Time stamp
1	2	onecut	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:17
2	100	oc-2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:17
3	1055	oc-3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:17
4	0	onecut and transcription	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:18
6	0	oc-3 and transcription	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:18
5	22	oc-2 and transcription	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 08:18

FILE 'HOME' ENTERED AT 08:21:45 ON 16 JUN 2003

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, CANCERLIT' ENTERED AT 08:21:56 ON 16 JUN 2003

L1	66	S	ONECUT
L2	431	S	OC 2
L3	278	S	OC 3
L4	862610	S	TRANSCRIPTION
L5	53	S	L1 AND L4
L6	32	S	L2 AND L4
L7	24	S	L3 AND L4
L8	84	S	L5-L7
L9	36	DUP	REM L8 (48 DUPLICATES REMOVED)
L10	13	S	L9 NOT PY>1999